

## Reduce Array Size to The Half [\(View\)](#)

You are given an integer array `arr`. You can choose a set of integers and remove all the occurrences of these integers in the array.

Return *the minimum size of the set so that **at least** half of the integers of the array are removed.*

### Example 1:

**Input:** `arr = [3,3,3,3,5,5,5,2,2,7]`

**Output:** 2

**Explanation:** Choosing `{3,7}` will make the new array `[5,5,5,2,2]` which has size 5 (i.e equal to half of the size of the old array).

Possible sets of size 2 are `{3,5}`, `{3,2}`, `{5,2}`.

Choosing set `{2,7}` is not possible as it will make the new array `[3,3,3,3,5,5,5]` which has a size greater than half of the size of the old array.

### Example 2:

**Input:** `arr = [7,7,7,7,7,7]`

**Output:** 1

**Explanation:** The only possible set you can choose is `{7}`. This will make the new array empty.

### Constraints:

- `2 <= arr.length <= 105`
- `arr.length` is even.
- `1 <= arr[i] <= 105`